fog machines FX5

DTS

The Lighting Company

User's Manual Rel 1.1

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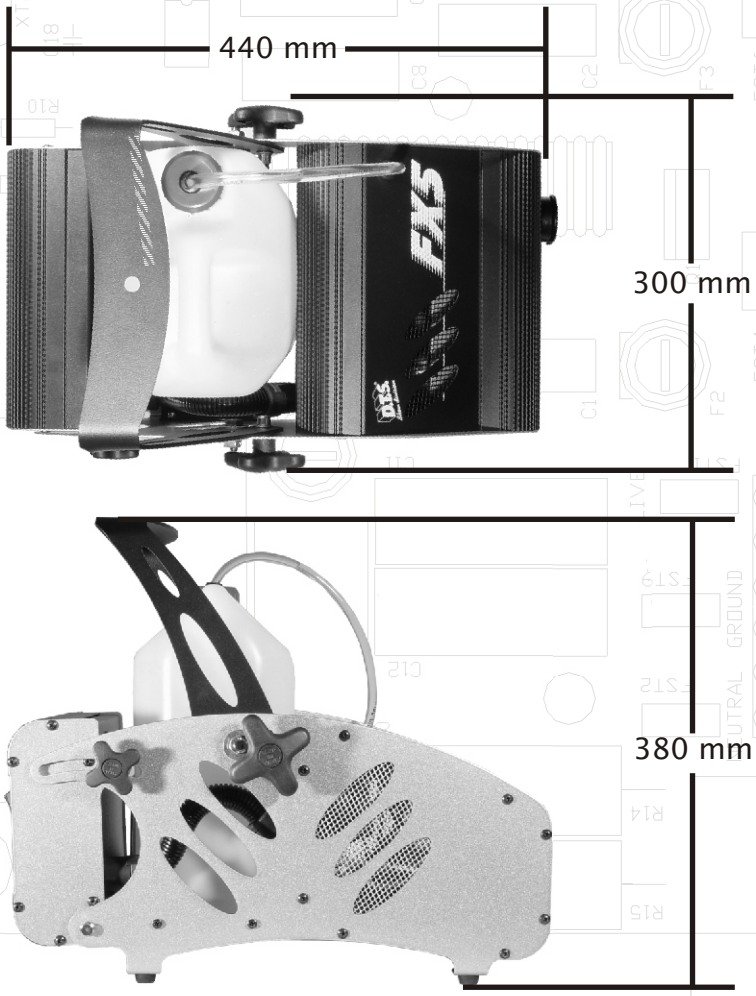
Appendix 1
DMX signal table

TECHNICAL SPECIFICATIONS

- **Power supply 220-240v 50-60Hz**
- **Power consumption: 1800W**
- **Control 2 channel DMX 512 or through remote**
- **Smoke delivery controlled through DMX**
- **Temperature controlled by microprocessor**
- **Rear display**
- **Protection thermo fuse**
- **Extruded aluminium casing**
- **5 litre tank capacity**
- **Dimensions: 400L x 250 W x 250 H**
- **Weight 9 Kg.**



1- IMPORTANT SAFETY INFORMATION

For your safety please adhere to the following rules:

Do not open or carry out modifications in the unit,
Do not let the electrical parts of the unit come in contact with flammable liquids or water.

Do not operate the unit under the following conditions:

- In places with intense humidity. The unit should be kept in places that have between 35% and 80% humidity factor
- in places where there are physical vibrations (near loud speakers) or where the unit is prone to accidental knocks
- in places where the temperature is below 0°C.

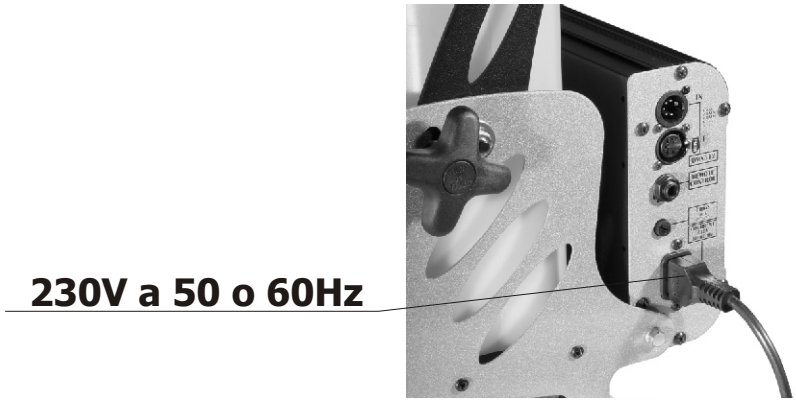
Do not expose the unit to temperatures above 40°C for long periods of time.

Warning:

In case of malfunction immediately switch the unit off and contact your local DTSdealer or directly contact DTS support.
Do not open the unit. No parts within the unit are directly reparable. Repairs should be carried out by qualified personnel only.

2 MAINS POWER SUPPLY CONNECTION

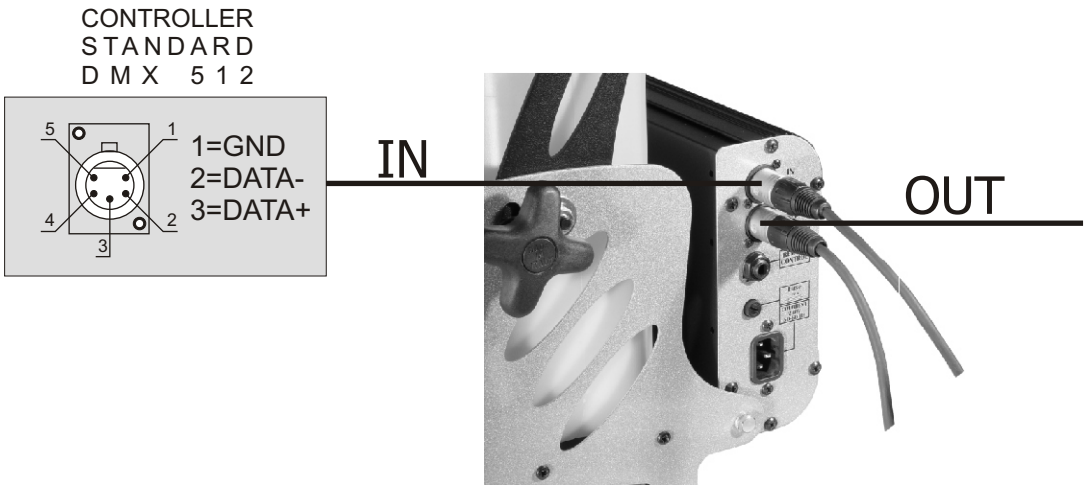
The FX5 works with 230v at 50 or 60Hz. Before connecting the unit check that the unit that you have is set for the current supply in your country. For the connection be sure to use a cable that can sustain a current spike of 10A at 230v. Be sure to adhere to local regulations and laws.



3 DMX CONNECTIONS

The FX5 works with a digital signal DMX 512 (1990). The connection between the controller and the smoke machine or between a projector and the unit must be done through a bipolar screened DMX cable with a minimum diameter of 0,5mm2, while the connector must be a cannon XLR with 5 pins. It is important to check that the cable wires are not in contact with each other and that they also do not come in contact with the socket casing. The casing of the connector must not be in direct contact with any wire. Connect the unit by plugging the DMX cable from the controller to the DMX IN socket on the unit. To connect more units simply connect them in a cascade fashion using the sockets DMX IN and DMX OUT.

NB: If the display which indicates the DMX address is flashing it means that the DMX signal is not being received.



4.- DMX ADDRESSES

The FX5 needs to have 2 DMX channels.

If one uses a DMX mixer with 8 channels use the following addresses:

Unit 1 A001
Unit 2 A009 for subsequent units just add "8"

Unit 3 A017
A….
Unit 6 A041

If one uses a DMX mixer with 10 channels us the following addresses:

Unit 1 A001
Unit 2 A011 for subsequent units just add "10"
Unit 3 A021
A….
Unit 6 A051

If one uses a DMX mixer with 16 channels use the following addresses:

Unit 1 A001
Unit 2 A0017 for subsequent units just add "16"

Unit 3 A033
A….
Unit 6 A064

The general rule is that the assigned DMX address on the single units depends on the number of channels available on the mixer. If you have a 12 channel mixer, the first unit will have the address "A001" and the number that should be added for the next processor is 12 therfore the address would be "A013".

Changing the DMX address

1) Press the ENTER key and the up-down keys on the unit until you can see the desired DMX address. The display will flash indicating that the address has as yet not been set.
2) Press the ENTER key to confirm the selection; the display will stop flashing the

unit will now respond to the set DMX 512 address. Please note that by keeping pressed the up down keys the unit will run through the numbers for faster selection.

5-FUSE REPLACEMENT

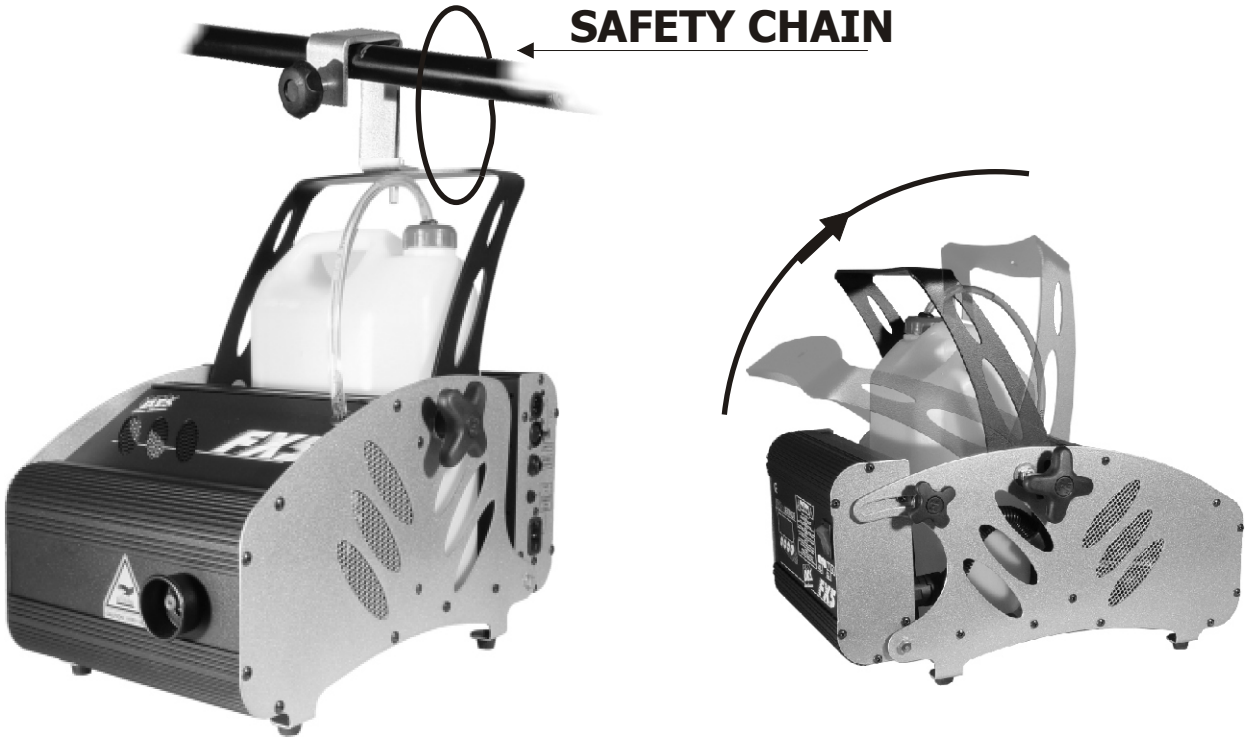
Replace the fuse with one of the same type and capacity (5x20 10A)Use a screwdriver to remove the fuse, turn anticlockwise while applying Reasonable pressure.

6-UNIT INSTALMENT

The FX5 can be installed either on the ground or hung on a truss. For ground placement, the FX5 has rubber stumps placed on the base of the unit. In case of overhead instalment we suggest the use of a truss structure with safety chains and clamps able to sustain the weight of the unit. The yoke of the unit is designed for easy installation with C type clamps on the trussing.

7-SAFETY CHAIN

The use of a safety chain is highly recommended fastening the unit to the truss in the case that the clamp should give way. Please insure that the chain used is of metal and is able to support the complete weight of the unit.



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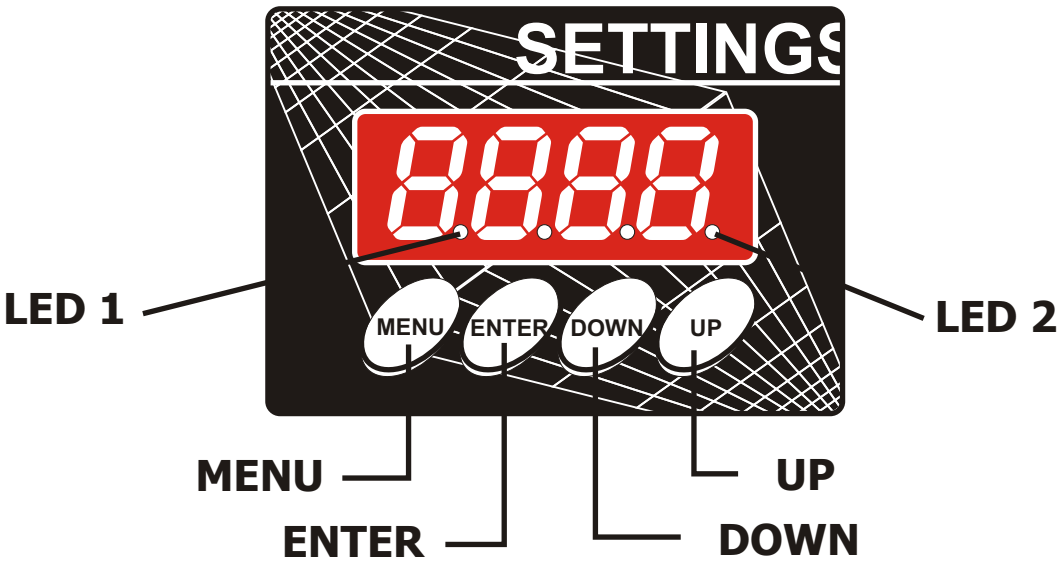
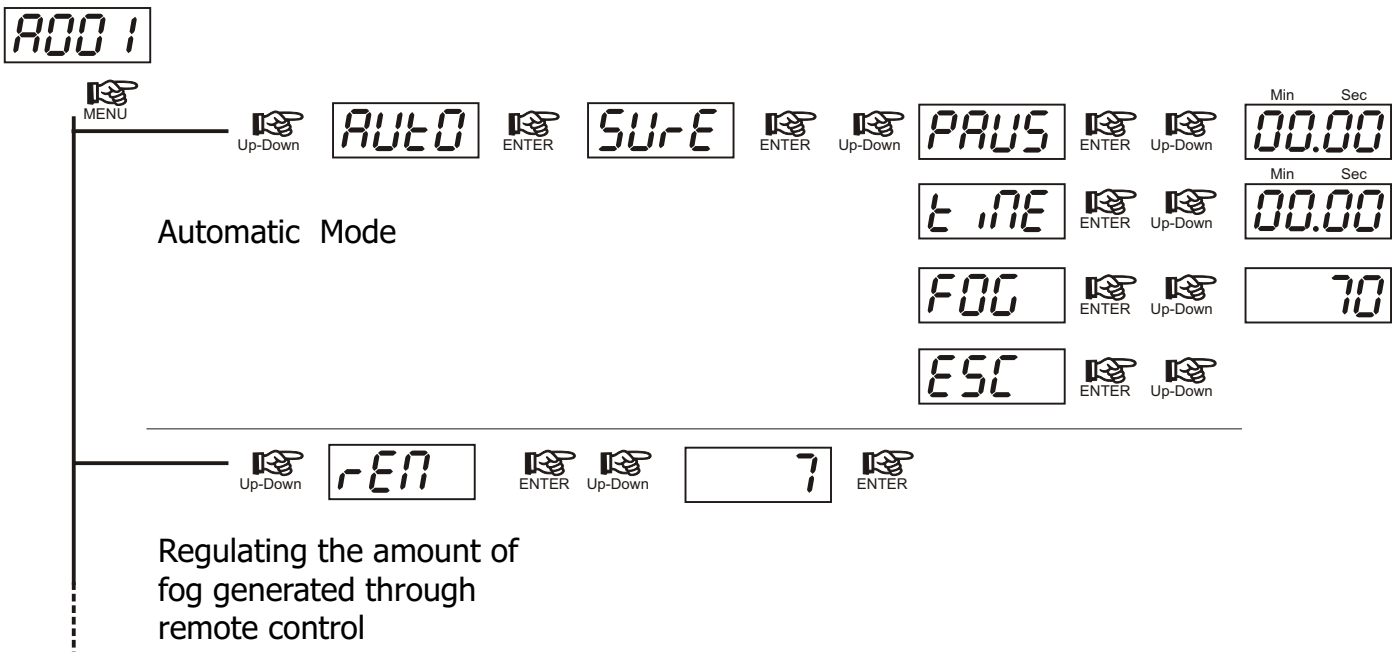
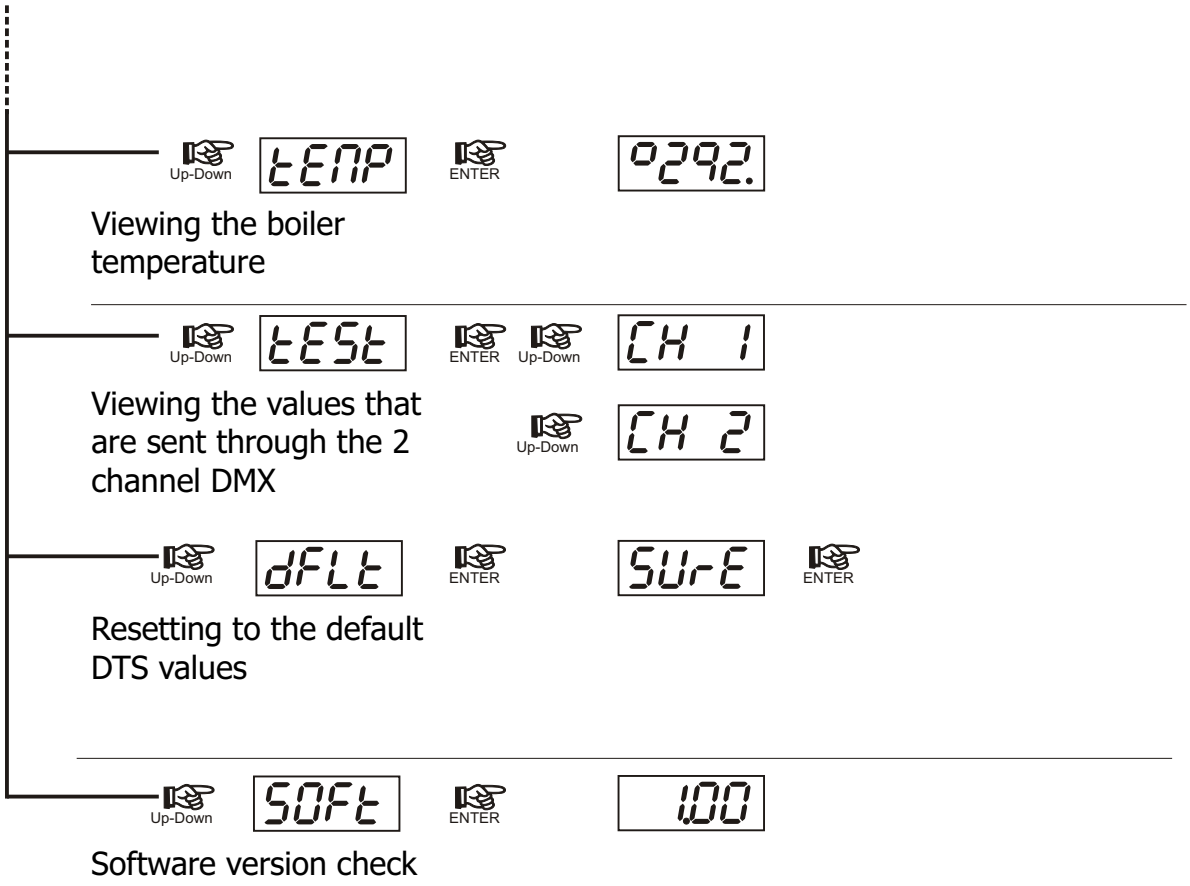
8 DISPLAY PANEL



Using the different functions available in the FX5 through the display panel, it is possible to add functions and to customise certain parameters. Altering D.T.S. default settings could result in the unit not functioning to specifications, or could cause the unit to stop responding to incoming DMX 512 commands, therefore it is imperative that you read the following instructions carefully before carrying out any modifications.
Please NOTE: that the symbol ☞ is used in the following table to indicate the action of pressing the required button.
Also note that: Led 1 on indicates that the boiler is heating
Led 2 on indicates that the unit has finished heating and is ready to operate.



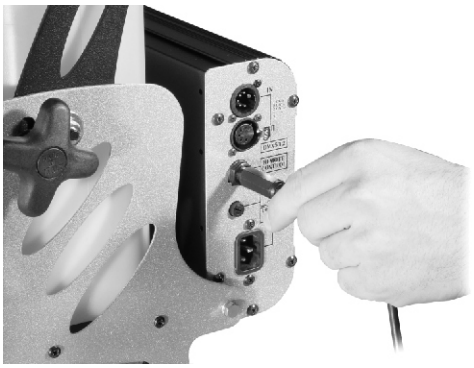


9-AUTOMATIC MODE

The FX5 is able to work stand alone without the use of a controller or through the remote control. First of all interrupt the DMX signal, using the menu select AUTO mode then you need to select the pause between one smoke emission and the next (PAUS), you must also set the duration of the emission (TIME) and the amount of smoke that must be sprayed.

10-REMOTE CONTROL

The FX5 also has a socket for the connection of a remote control for the manual activation and control of the unit. The signal unit ready is indicated by the illumination of the led; the amount of smoke Emission is regulated from rEM menu.



11-ERROR MESSAGES

DMX ADDRESS ERROR
ERROR IN RECEPTION OF DMX SIGNAL

THERMOCOUPLE NOT CONNECTED

THERMO FUSE INTERRUPTED
RESISTANCE FUSED OR NOT CONNECTED
SHORT CIRCUIT IN THE THERMOCOUPLE

INPUT ERROR IN AUTO MODE

12-HIDDEN MENU

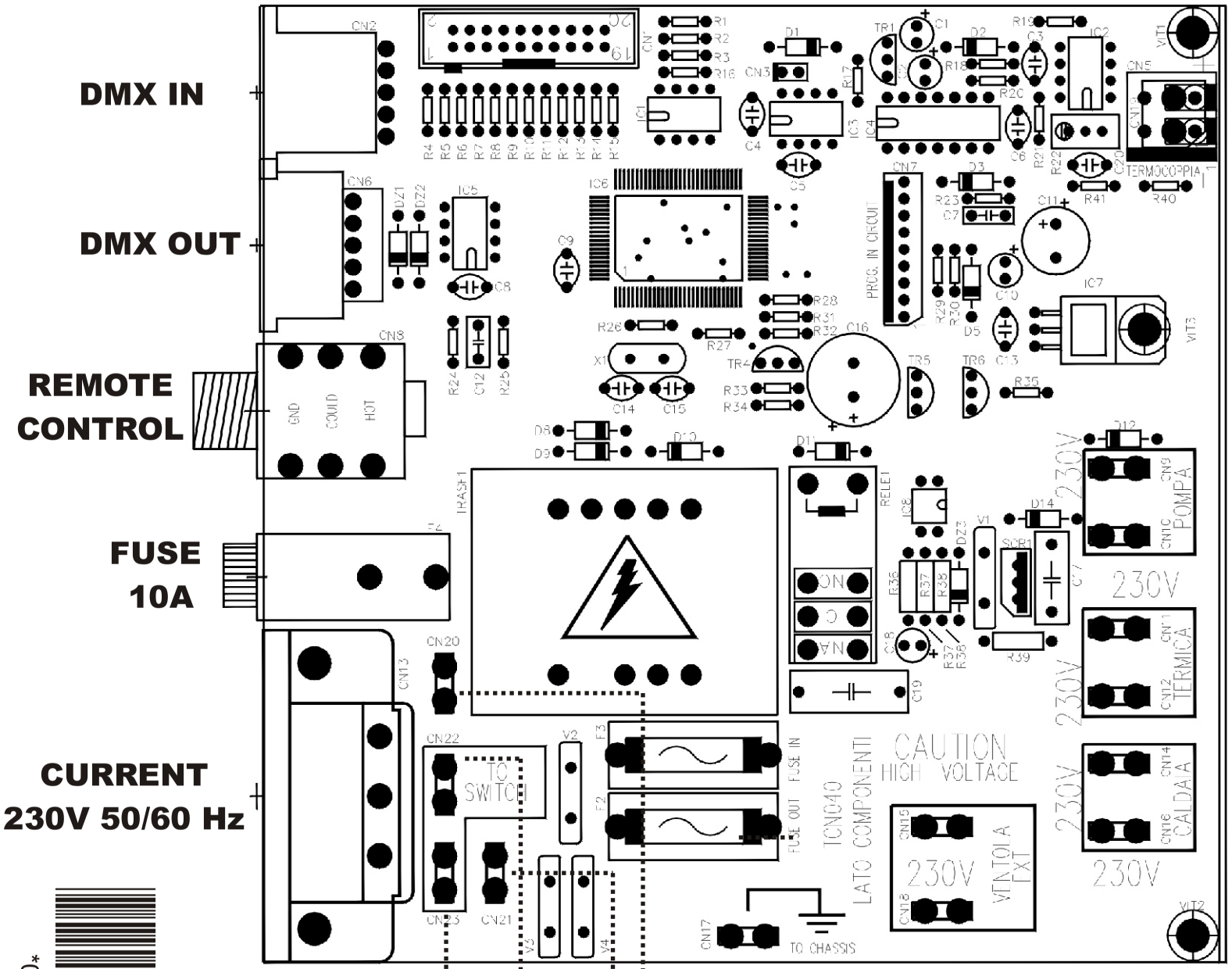
Access to the hidden menu is reserved for qualified personnel only.
To access the menu carry out the following instructions:
- Switch on the unit and hold down both the enter and menu buttons.

Reset EEPROM (Reset all settings)

Setting of the temperature at which the heating up phase is started or stopped (LED 1)

Setting the temperature in which the unit is ready (LED 2)

Exit from hidden menu



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